



**Partners for A Clean Environment (PACE)
and
Watershed Approach to Stream Health (WASH)**



2005 Progress Report

Highlights

The PACE Program provides education and recognition for environmental achievement to businesses and municipalities in Boulder County and portions of Weld County. PACE is voluntary and non-regulatory. Pollution prevention (P2) education and technical assistance are offered at no cost to participants. The primary goals of the program are to increase participation and use of sustainable practices to minimize use of hazardous materials, improve energy efficiency and water conservation, and decrease use of resources and generation of waste.

PACE Outreach

- 218 businesses and municipal operations in Boulder County are PACE-certified
- 19% of Boulder County businesses and municipal operations in the target sectors are certified (excluding retailers and manufacturers)
- In the city of Boulder, 28% of businesses are PACE-certified
 - 21 businesses became PACE-certified this year.
- In the city of Boulder, 14 out of 149, or 9%, of the uncertified businesses contacted this year became PACE-certified

Over 80% of the PACE-targeted businesses in Boulder County have been contacted regarding the program with the exception of the largest sector - restaurants. **The total number of certified businesses increased 5% in 2005.**

Outreach over the past 10 years has focused on city of Boulder businesses. Approximately 40% of the vehicle repair and dental offices and over 80% of the auto body businesses in the city of Boulder are now certified.

Environmental Practices

Figures 1 and 2 summarize business action taken in Boulder County since 2003 and in 2005 as a result of PACE outreach.

Figure 1. Environmental Compliance Practices Adopted After PACE Contact

PACE Sector	Practices adopted in 2005	Total practices adopted since 2003
Auto Repair Shops	10	25
Dental offices	12	29
Restaurants	28	34

Figure 2. Environmental Business Practices Adopted After PACE Contact

PACE Sector	Practices adopted in 2005	Total practices adopted since 2003
Auto Repair Shops	12	29
Dental offices	13	33
Restaurants	84	104

Pollution Reductions

The estimated waste reductions achieved by businesses and municipal fleets through December 31, 2005 are summarized in Figure 3.

Figure 3. Estimated Annual Pollutant Reductions Achieved

(All sectors except manufacturers)

Pollutant Category	Type of Pollutant Reduced	Quantity
Air Emissions	Volatile organic compounds (VOCs) from thinners, solvents, inks, paints	31.5 tons ¹
Hazardous Waste	Solvents, brake cleaners, paint waste, amalgam	6,100 gallons ²
Solid Hazardous Waste	X-ray lead from dental offices	82 pounds
Solid Waste	Oil filters, avoided aerosol cans, paper, metal, and other materials	927 tons ³
Wastewater Discharge	Antifreeze discharged to sanitary sewer, fixer from film developing	42,200 gallons ⁴
¹ Estimated based on reductions in solvent use in auto and print shops, assuming approximately 6 pounds VOC per gallon. If data were not available, auto shops were assumed to have a 30-gallon solvents tank serviced (i.e., hauled for recycling) every six weeks. ² Estimated using shop information on quantities of solvents and paints hauled as hazardous waste. ³ Estimated based on reported recycled cardboard, paper, metal, and oil filters, and aerosol cans avoided through bulk purchase. Assumed approximate weights of 1 pound per filter and 1/2 pound per can. ⁴ Estimated based on reported recycling of antifreeze and fixer from film developing.		

2005 PACE Sector Developments**Figure 4. Summary of Pollution Reductions by PACE Manufacturers**

Category	Reason for Reduction	Annual Reduction
Electricity Use	Equipment replacement and energy efficiency	3.6 million kWh
Natural Gas	Equipment replacement and energy efficiency	67,173 DecaTherms
Solid Waste	Source reduction, reuse, and recycling (paper, plastics, metal, batteries, wood, etc)	4,990 tons

Volatile Organic Compounds	Source reduction / control technology	14 tons
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The Landscape Professional Program membership increased by five members, or 83% this year.

Through a partnership with the City of Boulder Water Conservation Office, PACE was able to purchase 100 water-efficient pre-rinse spray valves and distribute them to restaurants during regular PACE site visits.

Twenty sample CFL floods and information on the electrical savings were given out to Boulder businesses.

Based on findings of the pilot program, PACE formalized a child care center certification program in 2005.

2005 PACE Outreach Summary

Presentations

- Hosted workshop at the Chamber of Commerce for business owners and facility maintenance managers to present BMPs for stormwater pollution prevention.
- Presented the PACE Dental Program at the EPA Region 8 – Certified Industrial Pretreatment Coordinators Association (CIPCA) annual meeting.
- Conducted focus group with Boulder County brewers and winemakers to discuss sustainability issues and measure interest in a PACE certification program.
- Presented the PACE Program and discussed environmental health issues with the multi-media and landscaping classes at Boulder Technical Education Center (TEC) and Arapahoe Ridge high schools. Site visits were performed in those classrooms, as well as in the auto repair and printing classrooms.
- Presented the PACE Program to the 2005 class of Leadership Boulder.
- Presented the PACE Program to the Boulder Optimists.
- All new City of Boulder employees are educated about the PACE program during orientation.

Educational Materials and Outreach

- Partnered with NAPA and the National Institute for Automotive Service Excellence (ASE) to send letters to Boulder County auto repair facilities encouraging their participation in the PACE Program.
- Co-authored letter with Estey's Printing encouraging Boulder County printers to participate in the PACE Program.
- Provided "We're PACE" and "We're PACE Certified" brochures to certified businesses to explain the PACE Program to their customers.
- Distributed list of PACE-certified businesses to the Boulder Race Series participants.
- Continued to revise existing resource sheets and created new resource sheets in response to emerging issues.
- Placed ongoing advertisements on local radio stations and in newspapers.
- Issued press releases to identify newly certified PACE businesses that described their P2 accomplishments. The *Daily Camera* and the *Colorado Daily* covered a press release regarding the water nozzle project.
- Water bill inserts describing the PACE Program and recognizing new partners were sent to all city of Boulder water customers in two monthly bills.